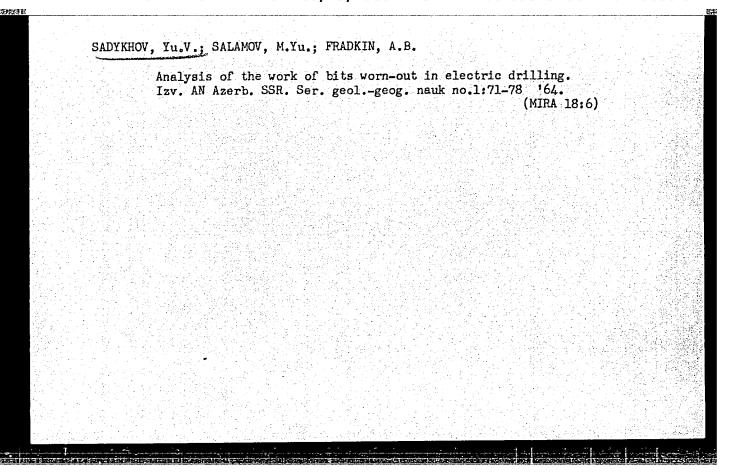
Stuck pipes and 17-18 Ja 162.	their causes. Azerb.	neft. Khoz.	41 no.1: (MIRA 16:7)	
	(Oil well drilling)			

	parametric ch 41 no.8:18-19	naracteristics of a turl	tal weight and the bodrill. Azerb.neft.khoz. (MIRA 16:1)	
			가는 사람들이 다른 사람들이 있는데 1980년 - 1980년	
			도 마시트 이 발생 시간 전환 경험 및 설명 이 지수는 일 시간 및 기계 경험 경험 및 설명	
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보다 후 이 기급해요 함. 1. 기술 기급하는 기술				



SALAMOV, M.Yu.; SADYKHOV, Yu.V.; MUSAYEVA, E., red.

[Problems of conditions in electric drilling] Vopresy rezhima elektrobureniia. Baku, Azerneshr, 1964. 151 p. (MIRA 17:12)

KULIYEV, S.M.; SADYKHOV, Ym.V.; MAKHMUDOV, T.M.

Power losses in the operation of a turbodrill with a drill collar on the shaft. Burenie no.2:13-15 '65.

1. Institut razrabotki neftyanykh i gazovykh mestorozhdeniy AN AzSSR.

Pressure losses in the Joints of drilling tools used in slim hais drilling. Neft.khoz. 43 no.8:51-55 ag '65.

(MESA 18:12)

34892

s/081/62/000/003/073/090 B171/B102

11.9700

AUTHORS:

Kuliyev, A. M., Sadykhov. 7. A., Levshina, A. M. Low-temperature copolymerization of isobutylene with styrene

TITLE:

in the presence of aluminum chloride

PERIODICAL:

Referativnyy zhurnal. Khimiya, no. 3, 1962, 493, abstract 3M226 (Azerb. khim. zh. no. 3, 1961, 17-24)

TEXT: The low-temperature copolymerization of isobutylene (I) with styrene (II) in isooctane and in the presence of AlCl₃ has been investigated in order to obtain viscosity improvers that would be stable under the working conditions to which the oils with additives are subjected in engines. The reaction was carried out in a glass reactor, using a mixer, engines. The reaction was carried out in a grass reactor, using a mixer, at a temperature of -1050c. The ratios of (I) and (II) were varied from at a temperature of -1050c. The ratios of (I) and (II) were varied from 95:5 to 85:15 for reaction durations from 2 min to 3 hours. 0.1 to 1.5% of the catalyst were used. Under the above conditions, copolymers with of the catalyst were used. Under the above conditions, copulymets with molecular weights of about 6200 to 13,000 were obtained. It has been shown morecular weights of about occurring samples of synthetic polymers increases that an addition of 3% of various samples of synthetic polymers increases the viscosity index of the MK-8 (MK-8) oil from 56 to 130-145, and its Card 1/2

KULIYEV, A.M.; SADYKHOV, Z.A.; LEVSHINA, A.M.

Polymerization of isobutylene and copolymerization of isobutylene and styrene in the presence of a metallo-organic catalyst. Azerb. neft.khoz. 41 no.3:33-36 Mr '62. (MIRA 15:8) (Propene) (Polymerization)

ACC SSION NR: AR5018416	UR/0081/65/000/011/S001/S001
SOURCE: Ref. zh. Khimiya, Abs. 1183	
AUTHOR: Kuliyev, A. M.; Sadykhov, Z. A.	ح کریم (6) Levshina, A. M.; Vedeneyava, L. Ya. 44/53
ion spectra	polymers with the help of infrared absorp-
SITED SOURCE: Uch. zap. <u>Azerb: un-t.</u> Ser	. khim. п., no. 2, 1964, 27-33
OPIC TAGS: polymer, absorption spectrum	
RANSLATION: The structures of a polymer ene with styrene used as viscous admixtured at the infrared spectra of polymers obto the polymers obto the polymers of polymers obto the polymers of polymers of polymers obto the polymers of a polymer	of isobutylene and a copolymer of isobutyres to oils are investigated. It is shown ained in the presence of boron fluoride or of polymers obtained in the presence of acteristic are the differences in the areations of the methylene (2930-2860 cm ⁻¹) and ors consider that the differences in the erization in the presence of metallorganic

ACCESSION NR: AR5018416			0
catalysts molecules of poly	mers are formed with less brand	hing. A. Korobko 🚎	
SUB CODE: OP, OC	ENCL: 00		
9.PT V.			
100			

37320 \$/065/62/000/005/001/002 E075/E436

11:0140

Kuliyev, R.Sh., Sadykhova, B.A. AUTHORS:

Hydrofining of diesel oil raffinate TITLE:

Khimiya i tekhnologiya topliv i masel, no.5, 1962, PERIODICAL:

32-34

Results are presented of hydrofining of diesel oil raffinate in place of acid refining. This work stems from a comprehensive programme of fundamental investigations carried out in the Institut neftekhimicheskikh protsessov AN AzSSR in the past few years to improve quality of the oils produced in Baku refineries. The experiments were conducted in a pilot plant, using 200 cm³ of Al-Co-Mo or WS2 as catalyst, with a constant The raffinate consumption of hydrogen of 30 L/hour. (distillate extracted with 250% furfural) was fed at the rate of $C.5 \text{ m}^3/\text{m}^3$ at temperatures between 300 and 400°C and 50 to 200 atm pressure. Hydrofinishing with Al-Co-Mo as catalyst at 350°C and 50 atm pressure gives diesel oils with somewhat better physicochemical properties than the corresponding oils obtained by treating the raffinate with 1% sulphuric acid and 5% clay. Card 1/2

CIA-RDP86-00513R001446710005-3" APPROVED FOR RELEASE: 08/25/2000

\$/065/62/000/005/001/002 E075/E436

Hydrofining of diesel oil ...

Hydrofinishing conducted at 100 to 150 atm pressures gives oils with markedly better quality than that of the acid treated oils. It was found that WS2 has better hydrogenating capacity than Al-Co-Mo. It gives however excessive cracking at temperatures above 300°C. Al-Mo-Co gives similar cracking at 400°C. For both catalysts the yield of the hydrofinished product is from 95 to 98% of the raffinate. There are 2 tables.

ASSCCIATION: Institut neftekhimicheskikh protsessov AN AZSSR (Institute of Petrochemical Processes AS AZSSR)

Card 2/2

S/081/62/000/024/005/052 B108/B186

AUTHORS:

Mardanov, M. A., Kuliyev, R. Sh., Markhaseva, S. M.,

Sadykhova, B. A., Alekperova, N. G.

TITLE:

Study of the oil and fuel, fractions obtained by hydrogenation

of diesel-oil distillates and raffinates

PERIODICAL:

Referativnyy zhurnal. Khimiya, no. 24, 1962, 718, abstract

24M162 (Azerb. khim. zh., no. 2, 1962, 25 - 30 [summary in

Azerb.])

TEXT: For the purpose of producing high-quality motor oils, diesel fuels, kerosene and gasoline fractions, the distillate of Δ-11 (D-11) diesel oil was subjected to deep hydrogenation over a WS₂ catalyst, and the raffinate of the same oil over a WS₂ and an Al-Co-Mo catalyst. It is shown that light motor oils with a viscosity index of the order of 85 - 90 can be produced from the hydrogenates obtained. The best of these is the oil produced by hydrogenation over WS₂. The gasoline fractions extracted from the hydrogenates contain a considerable quantity of paraffinic hydrocarbons (up Card 1/2

tudy of the oil and fuel	S/081/62/000/024/005/052 B108/B186
an the new meterial and	r low octane rating (35 - 37); this does not the catalysts used. Kerosene fractions of aydrogenizing diesel fuel raffinates over WS ₂ .
he diesel fuels thus obtained	meet all requirements demanded of winter e rating, they are far superior to the winter crude oil. [Abstracter's note: Complete
해보고 하는 모든 사람들은 물로 가능하게 되는 다음까 중에서 본 경기가 된 것이들은 이번 가는 다음이 되었다.	
	발표 발표하고 한다고 말하고 말했다. 아이 불렀다.
없는 이번 어느리라 된 어느님은 어느리는 어느 없다	

KULIYEV, R.Sh.; SADYKHOVA, B.A.; KADYMALIYEVA, N.I.

Using hydrogemation for obtaining MS-20 aviation oil from the asphalt of the Neftyanyye Kamni field. Azerb. neft. khoz. 41 no.12:35-36 D '62.

(Neftyanyye Kamni region-Asphalt)
(Hydrogenation) (Airplanes-Lubrication)

RASULOV, A.M.; CHERNOZHUKOV, N.I.; KULIYEV, R.Sh.; SADYKHOVA, B.A.

Effect of the depth of the detarring of crude residue on the hydrogenation and quality of the lubricant fractions obtained. Khim. i tekh. topl. i masel 9 no.9:29-33 S '64.

(MIRA 17:19)

ACCESSION NR: AP5016258

OR/CO65/64/CO0/O12/CO11/O015

AUTHOR: Rasulov, A. M.; Chernozinikov, N. I.; Kuliyev, R. Sh.; Sadykhova, B. A.

TITIE: Production of oils by the method of destructive hydrogenation

SOURCE: Khimiya i teknnologiya topliv i masel, no. 12, 1964, 11-15

TOPIC TAGS: catalysis, temperature, hydrogenation, petroleum refining, petroleum refinery product

Abstract: The influence of temperature and catalyst on the yield and quality of destructive hydrogenation products of the desphaltate of petroleum of the Neftyanyye Kanni Deposit was investigated. Raising the temperature of the hydrogenation pr. Cas on the catalysts Wo, and Al-Co-Mo. Optimum temperature for the hydrogenation of desaphaltate of Neftyanyye Kanni crude with a coking quality of 2% in the production of high-quality oils is 435°C with WSg catalyst and 465°C with Al-Co-Mo catalyst. The oils is 435°C with WSg catalyst and 465°C with Al-Co-Mo catalyst. The catalyst WSg makes it possible to carry out the hydrogenation at

hydrogenation on the WS, Catalyst contains hydrocarbons and less of the light and medium aromatic hydrocarbons than hydrocarbons and less of the light and medium aromatic hydrocarbons no oil produced on WS2 contains no heavy aromatic hydrocarbons, but does contain 1% of the intermediate fractions of aromatic hydrocarbons. The investigated oils contain approximately the same amount of resinous matter. Orig. art. h/s 2 graphs and 5 tables. ASSOCIATION: INKhP AN Azerb. SSR SUBMITTED: OO ENCL: OO OTHER: COO JPRS	higher yield (more than I	e and to obtain oils with better quality and in 8% of the crude). The aviation oil produced by catalyst contains more of the methane-naphthenic
SI MALLITANI OO	heavy aromatic hydrocarbon	ns, but does contain 1% of the intermediate rocarbons. The investigated oils contain approx-
		A CONTRACT OF THE PARTY OF THE

s/152/62/000/006/001/001 B126/B110

AUTHORS:

Mekhtiyev, S. D., Brzhezitskaya, L. M., Sadykhova, F. N.

Investigation of the reaction of ethylene condensation with

TITLE:

monochlorides of butane and pentane

PERIODICAL:

Izvestiya vysshikh uchebnykh zavedeniy. Neft' i gaz, no. 6,

1962, 61 - 66

TEXT: The object of these experiments was to obtain primary monochlorsubstituted alkanes. The initial material used was tertiary amyl chloride, tertiary butyl chloride, isobutyl chloride and ethylene. Optimum conditions for the condensation of tertiary amyl chloride with ethylene were established as follows: temperature -50°C, at which a yield of 81% is obtained; amount of catalyst 9% of initial chloride; reaction period 1.5 hr. The influence of the molar correlation under these conditions was found to be such that the maximum yield occurs using an ample quantity of ethylene. The product of these condensation tests was a heptylchloride with a boiling range of 146.75 - 196.900c. Optimum condensation occurred at 30°C, using 5% of catalyst in the case of tertiary butyl chloride with ethylene Card 1/2

Investigation of the reaction ...

S/152/62/000/006/001/001 B126/B110

(which gave a maximum yield of 79%) and using 10% of catalyst in the case of isobutyl chloride with ethylene. The condensation product was a hexylchloride with a boiling point of 116 - 117°C. There are 7 figures and 2 tables. The most important English-language reference is: Bawn CEH J. Inst. Petrol, v. XI, v. 46, No. 443, 1960.

ASSOCIATION: Azerbaydzhanskiy institut nefti i khimii im. M. Azizbekova (Azerbaydzhan Institute of Petroleum and Chemistry imeni M. Azizbekov)

SUBMITTED: January 19, 1962

Card 2/2

SADYKHOVA, I.A.

Some indexes of pigment metabolism in bacillary dysentery in children. Azerb. med. zhur. no. 1:21-25 Ja '61. (MIRA 14:2)

1. Iz kafedry gospital'noy pediatrii (zav. - zasluzhennyy deyatel' nauki, dotsent A.N. Amirdzhanov) Azerbaydzhanskogo gosudarstvennogo meditsinskogo instituta imeni N. Narimanova (direktor - zasluzhennyy deyatel' nauki, prof. B.A. Eyvazov).

(DYSENTERY) (BILIRUBIN)

SHAKHTAKHTINSKIY, T.N.; SADYKHOVA, Kh.I.; GADZHIYEVA, Kh.M.

Production of maleic anhydride by catalytic oxidation of

Production of maleic anhydride by catalytic oxidation of butylenes by air in the fluidized bed of the catalyst in a large pilot plant. Aze b. khim. zhur. no.3:80-83 '65.

1. Institut neftekhimicheskikh protsessov AN AzerSSR.

NAGIYEV, M.F.; KANDALOVA, V.D.; SADYKHOVA, Kh.I.

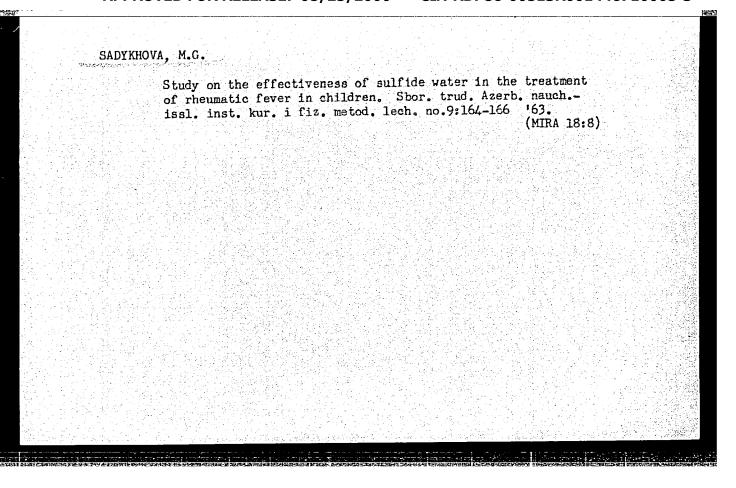
New method of calculating unit operations in the manufacture of sulfuric acid by the contact process. Azerb.khim.zhur. no.1:71-76 '61. (MIRA 14:8)

(Sulfuric acid)

SHAKHTAKHTINSKIY, T.N.; SADYKHOVA, Kh.I.; FARBERG, Z.M.

Preparation of maleic anhydride by the catalytic oxidation of butylenes in a fluidized bed of a catalyst. Azerb. knim. zhur. no. 2:91-94 '65. (MIRA 18:12)

1. Institut neftekhimicheskikh protsessov AN AzerSSR. Suhmitted Sept. 10, 1964.



S/081/62/000/007/019/033 B168/B101

AUTHORS:

Nagiyev, M. F., Vechkhayzer, I. V., Sadykhova, S. A.

TITLE:

Experimental research into the process of stabilization by hydrogenation of the middle fractions from light thermal

cracking of mazut

PERIODICAL:

Referativnyy zhurnal. Khimiya, no. 7, 1962, 538-539, abstract 7M109 (Azerb. khim. zh., no. 4, 1961, 61-73)

TEXT: The kinetics of the process of stabilization by hydrogenation of the 135-300°C fractions from light thermal cracking of mazut with an Al-Co-Mo catalyst in the temperature range of 320-400°C and at a pressure of 20-100 atm with various mazut/hydrogen ratios was studied in the laboratory. The influence of the thickness of the catalyst layer on the degree of conversion of the unsaturated hydrocarbons was shown. The optimum conditions for the process (those causing no appreciable destructive changes and which result in stabilized products almost entirely free from unsaturated and sulfur compounds) were as follows: pressure 100 atm, temperature 400°C, molar mazut/hydrogen ratio = 1:1.5; volume flow rate

Card 1/2

Experimental research into	o the		s/081 B168/	S/081/62/000/007/019/033 B168/B101		
1.0-1.5 l/l·hr. A diagram Complete translation.	of 1	the	apparatus	is	given.	[Abstracter's note:
Card 2/2						

3863li 5/081/62/000/009/053/075 B166/B144

11.0140.

Mariyev, M. F., Vechkhayzer, I. V., Sadykhova, S. A.

TITLE:

rroduction of diesel fuels from the medium fractions in light

thermal cracking of the residue

PERIODICAL:

Referativnyy zhurnal. Knimiya, no. 9, 1962, 516, abstract 9.171 (Dokl. AN Azerbash, v. 17, no. 3, 1961, 681 - 686)

TEXT: It is shown that hydrostabilization of the medium fractions in light thermal cracking of the residue (the 135 - 300°C and 200 - 350°C fractions separated from gasoline + kerosine and kerosine + reflux mixtures, separated from gasoline + kerosine and kerosine + reflux mixtures, respectively, served as raw material) over an Al - Co - Mp catalyst under previously established optimum working conditions make it possible to obtain arctic-grade and winter-grade diesel fuels which fulfill the Color (COST) tain arctic-grade and winter-grade diesel fuels which fulfill the color requirements and greatly surpass them with respect to cetane numbers. The same can be done over "S2, subject to various working conditions and

followed by dewaxing with caroamide. The yield of diesel fuels from these specific fractions is considerably higher with Al - Co - Mo then with WS2

Card 1/2

Production of diesel fuels ... 3/081/62/000/009/053/075
B166/B144

catalysts; the quality of the fuels obtained is approximately the same in both cases. [Abstracter's note: Complete translation.]

PETROVA, Z.G.; BABAYEVA, A.A.; SADYKHOVA, S.A.; ZEYNALOVA, K.G.

Some data on sulfocation exchangers obtained on the basis of polyalkyl benzenes produced by synthetic rubber plants.

Azerb. khim. zhur. no.2:45-50 '63. (MIRA 16:8)

L 18951-65 EWT(m)/EPF(c)/EPR/EWP(j)/T Pc-4/Pr-4/Ps-4 RPL/ASD(m)-3 RM/

ACCESSION NR: AP4049422

S/0316/64/000/001/0037/0042

AUTHOR: Petrova, Z. G.; Babayeva, A. A.; Sady*khova, S. A.; Zeynalova, K. G.; Bulling Mirzoyeva, O. I.; Zamanova, E. Yu.

TITLE: A study of relationships governing the copolymerization of diviny benzeness with styrene using the sodium salt of polyalky benzenesul fonic acid as an emulsi-jying agent \

SOURCE: Azerbaydzhanskiy khimicheskiy zhurnal, no. 1, 1964, 37-42

TOPIC TAGS: copolymerization, emulsifier, polyalkylbenzenesulfonate, divinylbenzene copolymer, styrene copolymer, ion exchange resin, cumere hydroperoxide

ABSTRACT: This work is a continuation of earlier investigations on the adoption of polyalkylbenzenes used for alkylation in the production of high-molecular—weight compounds. The article presents the results of a study of the relation—ships governing the copolymerization of styrene with the technical-grade fraction of divinylbenzenes, the best ion-exchange resins being obtained from such copolymers. The copolymerization was carried out in the presence of cumene hydroperoxide as the initiator, and the sodium salt of polyalkylbenzenesulfonic acid as the emulsifier, developed at the INKhP under the supervision of M. A. Ashimov. The investigated factors affecting the copolymerization process were the temperature,

L 18951-65

ACCESSION NR: AP4049422

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the initiator and emulsifier concentration; and the duration of the experiment. The optimum values found were a temperature of 90C, a concentration of cumene hydroperoxide of 2%, a concentration of emulsifier of 0.5%, and a reaction time of 8 hrs. The highest yield of polymers was obtained at low concentrations of diving benzenes in the starting mixture. Orig. art. has: 3 figures and 3 tables.

ASSOCIATION: none

SUBMITTED: 00

ENCL: 00

SUB CODE: OC

NO REF SOV: 004

OTHER: 0000

Card 2/2

EWT(m)/EPF(c)/EWP(j) Pc-4/Pr-4 L 18950-65 ASD(m)-3 RM

ACCESSION NR: AP4049431 S/0316/64/000/003/0083/0089

AUTHOR: Petrova, Z.G., Babayeva, A.A., Sady*khova, S.A., Zeynalova, K.G.

TITLE: Preparation of sulfpolymers from divinylbenzend and styrene and a study of their physicochemical properties

SOURCE: Azerbaydzhanskiy khimicheskiy zhurnal, no. 3, 1964, 83-89

TOPIC TAGS: isopropylbenzene peroxide, divinylbenzene, styrene, copolymerization, sulfopolymer, sulfonation, polymer physical property, ion exchange resin

ABSTRACT: Copolymers produced from a mixture of styrene and 2.5% commerical divinylbenzene by heating for 6 hours at 90-98C using 1-3% isopropylbenzene peroxide as an initiator and 0.5% azolate as an emulsifier were sulfonated for 4 hours at 120C by 98-100% sulfuric acid used in a 4:1 ratio to the polymers. Granulometric composition, bulk and true density, total exchange capacity, swelling characteristics; and calcium-ion capacity of the polymers are given in tables for different sulfonation conditions. The effect of increasing the divinylbenzene content in the original compounds from 5 to 30% on the properties of ion exchange resins produced by sulfonation is also tabulated. Excessive swelling limits the divinyl content of the copolymers to 10%. Orig. art. has:

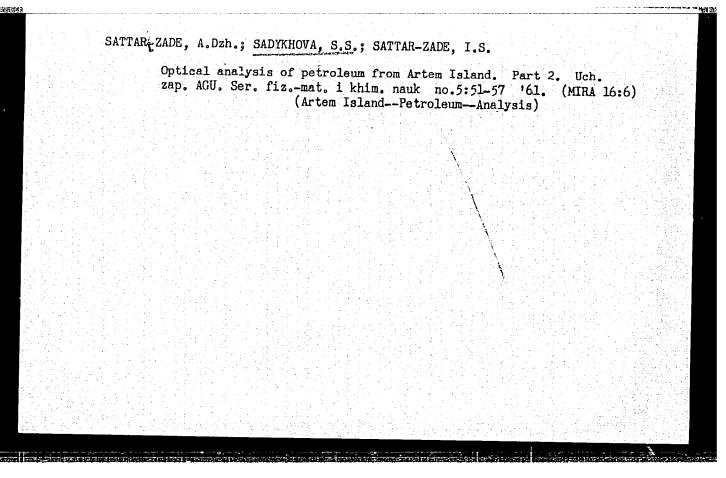
Card 1/2

L' 18950-65
ACCESSION NR: AP4049431
4 tables.

ASSOCIATION: none

SUBMITTED: 00 ENCL: 00 SUB CODE: OC

NO REF SOV: 006 OTHER: 000



L 11585-66 EWT(m)/EWP(j) RM

ACC NR: AP5028892

SOURCE CODE: UR/0316/65/000/004/0058/0064

AUTHOR: Shvarts, A. G.; Sadykhova, U. K.; Eytingon, I. I

35 .

ORG: AZINEFTEKHIH im. M. Azizbekova

5,44,55

TITLE: Study of vulcanization activity in alkylphenolformaldehyde resins containing methoxy- and bromomethyl terminal groups

SOURCE: Azerbaydzhanskiy khimicheskiy zhurnal, no. 4, 1965, 58-64

TOPIC TAGS: vulcanization, resin, polyformaldehyde plastic, synthetic material

ABSTRACT: The effect of introducing terminal methoxy- and bromomethyl groups to the p-octylphenolformaldehyde resins (BOFFA) and OFFA commercial resins) on the mechanical properties of these resins and the rate of vulcanization was studied. The rate of vulcanization was studied with and without SnCl₂·2H₂O activator. A VR-2 plastometer measured resin viscosity at 110°, 120°, 130°, and 140°C. The degree of resin cross-linking was measured by swelling technique at 140°, 150°, 160°, 170° and 180°C. The vulcanization rate in the bromine-containing resin mixture was 1.8 times greater than that in the methoxy-groups containing resin mixture. The vulcanization accelerating action of the bromomethyl groups was particularly pronounced in the absence of vulcanization activator. Presence of bromomethyl groups also caused an increase in cross-linking. Introduction of the bromomethyl groups was reflected in a general improve-

Card 1/2

ACC NR: AP502889 ment in the physic resins. Orig. ar	comechanical p	properties of	the commerc	ial p-octy	/lphenolfor	maldehyde
		14Apr64/		006/	OTH REF:	000
						,
HW			•			

SADYKH-ZATE, A. A.

SADYKH-ZADE, A. A.: "The Architecture of Rural Residential Buildings in the Northeastern Mountainous Regions of Azerbaydzhan." Academy of Architecture USSR. Moscow, 1956. (Dissertation for the Degree of Candidate in Architectural Science)

So: Knizhnaya Letopis', No. 19, 1956.

Salvykh-Zade, E. S. -- Author's abstract of a dissertation submitted toward the academic degree of Candidate in Technical Sciences on "Fational Principles for the Removal of Gas from an Endergr und Promp 313 Well." Min Higher Education USSF. Azerbaydzhan Order of Labor Fed Banner Industrial Inst Laeni M. Azizbekov. Paku, 1956.

(Dissertation for the Degree of Candidate in Technical Science)

So: Knizhnaya Letopis', Ne 12, 1956

Calculating gas-collecting ring pipelines. Izv. neft' i gaz no. 3:117-119 '58.	yys. ucheb. zav.; (MIRA 11:7)
1. Azerbaydzhanskiy industrial'nyy institut im. (Gas pipes)	M. Azizbekova.

37 no 1:29=30 Ja 50	in deep pumping wells. Azerb. (Gas, Natural)	neft, khoz. (MIRA 11:6)

KADYROV, N.K.; SADYKH-ZADE, E.S.

Method for taking smaples from a two-phase vertical flow of gas condensate mixtures. Azerb.neft.khoz. 41 no.3:24-25 Mr '62. (MIRA 15:8)

(Condensate oil wells)

SADYKHZADE, E.S.; MAMEDOV, Yu.G.; RAFIBEYLI, N.M.

Effect of rock gas sorption on permeability. Izv. vys. ucheb. zav.; neft' i gaz 6 no.8:45-49 '63. (MIRA 17:6)

1. Azerbaydzhanskiy institut nefti i khimii imeni M. Azizbekova i Azerbaydzhanskiy nauchno-issledovatel'skiy institut po dobyche nefti.

SADYKH-ZADE, E.S.; MAMEDOV, Yu.G.; RAFIBEYLI, N.M.

Determination of the dynamic pressure of initial condensation in the presence of a porous medium. Izv.vys.ucheb. zav.; neft' i gaz 6 no. 12:33-34 '63. (MIRA 17:5)

1. Azerbaydzhanskiy institut nefti i khimii im. M.Azizbekova i Azerbaydzhanskiy nauchno-issledovatel'skiy institut po dobyche nefti.

DURMISH'YAN, A.G. (Baku); MAMEDOV, Yu.G. (Baku); MIRZADZHANZADE, A.Kh. (Baku); RAFIBEYLI, N.M. (Baku); SADYKH-ZADE, E.S. (Baku)

Experimental investigations of hydrodynamic and thermodynamic properties of gas-condensate mixtures flowing in a porous medium.

Jzv.AN SSSR. Mekh.i mashinostr. no.l:133-136 Ja-F '64.

(MIRA 17:4)

DURMISH YAN, A.G.; MAMEDOV, Yu.G.; MIRZADZHANZADE, A.Kh.; HAFIBEYLI, N.M.; SADYKH-ZADE, E.S.

Experimental investigations of the hydrodynamic and thermodynamic properties of gas-condensate mixtures during seepage in a porous medium. Dokl. AN Azerb. SSR 20 no.8:31-35 '64. (MIRA 17:12)

1. Azerbaydzhanskiy nauchno-issledovatel'skiy neftyanoy institut.

ISMAYLOV, D.Kh.; SADYKH-ZADE, E.S.; TRIVUS, N.A.

Effect of the thermodynamic disequilibrium of the differential condensation of a gas-condensate system on the quantity of condensate evolved. Izv. vys. ucheb. zav.; neft' i gaz 8 no.1:73-77 '65. (MIRA 18:2)

1. Azerbaydzhanskiy institut neftî i khimii imeni A. Azizbekeva i Azerbaydzhanskiy nauchno-issledovatel'skiy institut po dobyche nefti.

TRIVUS, N.A.; SADYKH-ZADE, E.S.; ISMAILOV, D.Kh.

Experimental investigation of the contact and differential condensation of a gas-condensate mixture. Izv. vys. ucheb.

zav.; neft' i gaz 8 no.2:47-50 '65.

(MIRA 18:3)

l. Azerbaydzhanskiy institut nefti i khimii im. M. Azizbekova i Azerbaydzhanskiy nauchno-issledovatel'skiy institut po dobyche nefti.

Change in the total blood cholester under the influence of subaqueous: Bash-Istisu mineral water. Sbor.tr kur.i fiz.metod.lach.no.3:117-121 (AZERBAIJAN-MINERAL WATERS) (CHOLESTEROL)	intestinal lavage with rud.Azerb.nauch.—issl.inst.	

TRIVUS, N.A.; SADYKH-ZADE, E.S.

Change in gas and condensate properties in the process of the development of Karadag and Zyrya gas condensate fields. Gaz. delo no.9:5-11 '63. (MIRA 17:12)

1. Azerbaydzhanskiy nauchno-issledovatel'skiy institut po dobyche nefti.

SADYKH-ZADE, F.S.; ISMAILOV, D.Kh.; KARAKASHEV, V.K.

Effect of methods for condensation on the drop in reservoir pressure.

Izv. vys. ucheb. zav.; neft' 1 gaz. 8 no.5:43-46 '65. (MIRA 18:7)

1. Azerbaydzhanskiy institut nefti i khimii im. M.Azizbekova i Azerbaydzhanskiy nauchno-issledovate' eller institut no dobyche nefti

SADYKHZADE, S. I., PETROV, A. D.

Silicon Organic Compounds

Synthesis and properties of silicohydrocarbons of the enim series. Dowl. AN SSSR 85 No. 6, 1952.

9. Monthly List of Bussian Accessions, Library of Congress, December 1952, UNICL.

	[2]
OTKHEADE, S.I.	
lykhzade, S.I "Synthesis and Reactions of Silicon Hydrocarbons of the Enin Series." and Chem Sci, Inst of Organic Chemistry, Acad Sci USSR, Moscow 1953. (MEFERATIVNYY AMAL-KHI IYA, No 1, Jan 5h.)	
irce: SUM 168, 22 July 1954	
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Organic chamistry USSR/ Chemistry

Pub. 40 - 22/27 Card

Petrov, A. D., Cadykhzadze, S. I., and Yegorov, Yu. P. Authors

: Synthesis, physical and chemical properties of vinylethinyleilanes Title

: Izv. AN SSSR. Otd. khim. nauk 4, 722 - 732, July - August 1954 Periodical

! The synthesis and physico-chemical properties of vinylethinylsilanes Abstract are described. The addition reactions, considered the most interesting among all other chemical reactions of vinylethinyleilanes, are analysed. Vinylethinylsilanes and particularly divinylethinylsilanes, when exposed to air, spontaneously polymerize into transparent peroxide - containing resins. The relation between the rate of polymerization and the structure of the silanes, is explained. Tables showing the physico-chemical properties of mono, di- and trisilanes, are included. Eleven references: 6 USSR and 5 USA (1933 - 1953). Graphs; tables.

Institution : Acad. of Sc. USSR, The N. D. Zelinskiy Institute of Organic Chemistry

: May 6, 1953 Submitted

SADYKH-ZADE, S. I.

USSR/Chemistry - Synthesis

Card : 1/1

Authors

: Sadykh-Zade, S. I., and Petrov, A. D., Memb. Corres. of Acad.

or sc., ussk

Title : Direct synthesis of 3-chlorobutene-2-silane chlorides

Periodical : Dokl. AN SSSR, 96, Ed. 4, 765 - 768, June 1954

Abstract : The process of direct synthesis of 3-chorobutene-2-silane

chlorides is described. The reaction begins easily and continues at medium temperatures. At 250°, the reaction shows a tendency toward homologous monosilanes. Monosilane chlorides constitute about one half of the silane chlorides, subjected to distillation. At low synthesis temperatures the chloride, which has a short bond with the carbon, reacts in a relatively lesser degree and the yield of butene-2, 3-chloro-silane chlorides is close to the yield of allylsilanechlor-

ides. Five references. Table.

Institution: Acad. of Sc. USSR, The N.D. Zelinskiy Inst. of Organic Chem.

Submitted : March 13, 1954

USSR/Chemistry - Synthesis

Card 1/1 Pub. 40 - 24/27

SADYKHZADE, S. -

Authors ! Petrov, A. D.; Sadykhzade, S. I.; and Vdovin, V. M.

Title : Reaction of MgBr-vinylethinyl with triphenylhalide silanes

Periodical : Izv. AN SSSR. Otd. khim. nauk 1, 181-182, Jan-Feb 1955

Abstract Brief report is presented on the established differences in the synthesis and reactivity of (C₆H₂)₂SiCl and (C₆H₂)₃CCl. The existing reactivity differences are explained by the different electron density of bonds with the Cl of the silicones and carbonium radicals as well as by the spatial hindrances in the formation of the ion silicone. Six references: 3 USA

and 3 USSR (1933-1954).

Institution: Acad. of Sc., USSR, The N. D. Zelinskiy Inst. of Organ. Chem.

Submitted : July 22, 1954

SADYKH - ZADG, S.I.

USER/ Chemistry - Synthesis methods

Card 1/1

Pub. 22 -27/60

Authors

Title

Petrov. A. D. Memb. Corresp., Acad. of Sc., USSR, Sadykh-Zade,

and Vdovin, V. M.

Synthesis and reactions of beta-trichlorosilylpropionitrile

Periodical

Dok. AN SSSR 100/4, 711-714, Feb 1, 1955

Abstract

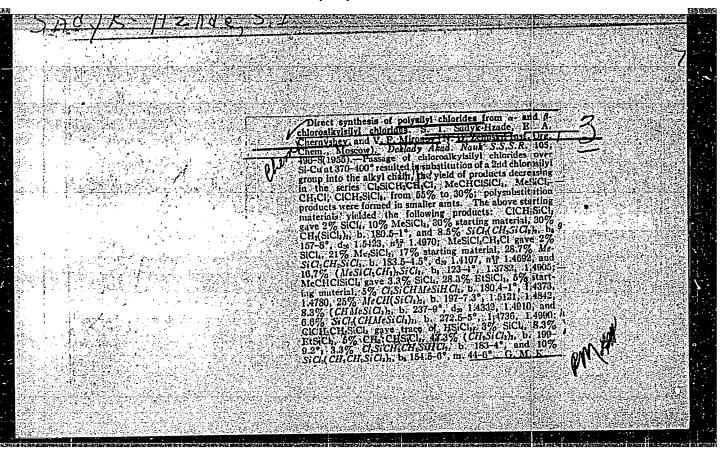
A direct method is described for the synthesis of beta-trichlorosilylpropionitrile (Cl_SiCH 2 • CH2 • CN) from beta-chloropropionitrile passing through a Si-Cu alloy at 370°. The synthesis of this compound - an analogue of ethyltrichlorosilane with the nitrile group in beta-position relative to Si - has uncovered simple ways of obtaining its different poly - and monomeric derivatives. The reaction of beta-trichlorosilylpropionitrile with other silicon halide compounds is discussed. Six

references: 3 USA, 2 USSR and 1 English (1945-1954).

Institution :

Submitted

July 10, 1954



SADYKHZADE, SI

USSR/Organic Chemistry - Synthetic Organic Chemistry

E-2

Abs Jour : Referat Zhur - Khimiya, No 2, 1957, 4461

: Petrov, A.D., Sadykhzade, S.I., Tsetlin, I.L. Author : Academy of Sciences USSR Inst

: Direct Synthesis of Alkyl- and Alkenyl Chlorosilanes Title

on the Basis of 1,1-Dichlorethane and 2,2-Dichloropropane

: Dokl. AN SSSR, 1956, No 1, 99-102 Orig Pub

: Study of interaction of l,l-dichlethane (I) and 2,2-di-Abstract

chloropropane (II) with an alloy of Si-Cu (80:20) (16-25 hours at 360-3800 under conditions of a circulation-25 hours at 300-360° under conditions of a circulation-type equipment). From I were obtained: 4.5% SiCl4, 15.2% I, 6.4% vinyl-dichlorosilane (BP 72-73°/750.5 mm, n²⁰D 1.4160, d²⁰ 1.1222), 16% vinyl-trichlorosilane (BP 92.5°/750.5 mm, n²⁰D 1.4295, d²⁰ 1.2426); 6.5% 1,1-bis-dichlorosilylethane (III) (BP 165.5°/750.5 mm, n²⁰D 1.4678, d²⁰ 1.3343); 18.5% 1-dichlorosilyl-1-trichlorosilylethane (IV) (BP 181°/750.5 mm, n²⁰D 1.4740, d²⁰

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USSR/Organic Chemistry - Synthetic Organic Chemistry

E-2

Abs Jour : Referat Zhur - Khimiya, No 2, 1957, 4461

1.4310) and 18.5% 1,1-bis-(trichlorosily1)-ethane (V) (BP 197.5°/750.5 mm, n²⁰D 1.4820, d₄²⁰ 1.5059). From II were obtained: 2% SiCl₄; 15% II; 7.6% dichlorisopropenyl-silane (VI) (BP 90°/758 mm, n²⁰D 1.4310, d₄²⁰ 1.0787); 10.1% isopropenyltrichlorosilane (BP 113°/758 mm, n²⁰D 1.4412, d₄²⁰ 1.2398); 14% 2,2-bis-(dichlorosily1)-propane (VII) (BP 175.8/8°/758 mm, n²⁰D 1.4709, d₄²⁰ 1.2635); 11.5% 2-dichlorosily1-2-trichlorosily1-propane (VIII) (BP 195.5°/758 mm, n²⁰D 1.4818, d₄²⁰ 1.3808); 8.5% 2,2-bis-(trichlorosily1)-propane (BP 214°/758 mm, n²⁰D 1.4927. d₅²⁰ 1.3733) and a small amount of a substance 1.4927, d_4^{20} 1.3733) and a small amount of a substance having a melting point of 88-90°, and according to analytical data the composition [SiCl2C(CH3), 73. By methylation there were obtained: From III -- CH₃CH(SiH(CH₃)₂)₂ (IX), BP 1240/746 mm,

 $n^{20}D$ 1.4252, d_4^{20} 0.7597; from IV -- $CH_3CHSIH(CH_3)_2$.

Card 2/3

- 97 - ... 3'2'2' 758 μ m, n^{20} D 1.4360, d_{μ}^{20} 0.7779; from VIII -- $(CH_3)_2$ $C(SiH(CH_3)_2$ $Si(CH_3)_3$) (XII), BP 159-160°/758 mm,

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obtained for the first time. From 1,2-dichloethane, under the above-described conditions, vinylsilane chlorides are not formed.

Card 3/3

- 98 -

SADYKH-ZADE,

USSR/Organic Chemistry - Synthetic Organic Chemistry

E-2

Abs Jour

: Referat Zhur - Khimiya, No 2, 1957, 4464

Author

: Petrov, A.D., Mironov, V.F., Vdovin, V.M., Sadykh-Zade,

Inst

: Academy of Sciences USSR

Title

: Cyanethylation of Silicochloroform

Orig Pub : Izv. AN SSSR, Otd. khim. n., 1956, No 2, 256-257

Abstract

: It is shown that on heating for 4 hours at 160-1700 and 20 atmospheres in the presence of Raney nickel, HSiCl₃ is added to CH₂=CHCN (I), to give Cl₃SiCH₂CH₂CN (II)

(BP 79-820/10 mm, MP 32-330) with a yield of 12.2%. HSi(CH3)Cl2, under the same conditions, is added to I,

but pure ${
m Cl}_2({
m CH}_3){
m SiCH}_2{
m CH}_2{
m CN}$ could not be isolated. On

interaction of II with CH3MgI was obtained

Card 1/2

- 101 -

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SADVKH-ZADE, S. 1.		
√13512° (Russian,) Research in Compounds of High Moles—	7/MA.40072 Jeipies	
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Zavisimost' svoisty smeshamykh poliamidov ot kollehestva [N vodorodnykh sviazel VV Korshik A. D. Petrov, N. G. Matvesyn V. F. Mironov, G. L. Nikltin, S. J. Sadykh Zade		
and T. M. Frunze, Zhurnal Obshchei Kirmii, v. 26, no. 4, Apr. 1956, p. 1209-1212.		
H	72	

SADYKHZADE, S.I.

USSR/Organic Chemistry. Synthetic Organic Chemistry.

E-2

Abs Jour: Ref Zhur-Khimiya, No 6, 1957, 19258.

Author : Sadykhzade S. I., Tzetlin I. I., Petrov A. D.

Title : Synthesis of Silicon Containing Simple Ethers and

Diethers.

Orig Pub: Zh. obshch. khimiyi, 1956, 26, No 5, 1239-1243.

Abstract: According to the diagrams of Grignard and Barbier-

Yavo skiy were synthesized a series of ethers with a Siatom in [5-, /-, and 6- positions to the ether linkage. It is determined, that in -silicone ethers the bond Siac is not broken by the action of conc. HCl on heating, or AlCl3 at usual temperature. With AlCl3 at 50-60° is formed (CH3)3Si Cl (I). The action of Br2 on (CH3)3Si(CH2)3 OCH3 (II) led to the formation of (CH3)3SiBr. To 30 g. Mg and 0.5 g AlCl3 in 350 cc abs. ether is gradually added

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USSR/Organic Chemistry. Synthetic Organic Chemistry.

E-2

Abs Jour: Ref Zhur-Khimiya, No 6, 1957, 19258

a mixture of 108.5 g. C1(CH₂)30CH₃(III) (b.p. 110.2°/73½ mm, n^{20} D 1.4133, d_{\downarrow}^{20} 0.9971) and 108.5. I and the mixture is stirred while heating for 5 hours. After the usual treatment II is obtained, yield 68% b.p. 1420/746 mm, n^{20} D 1.4112, d_{\downarrow}^{20} 0.7907. Analogically were synthesized (given substance, yield in %, b.p. °C/mm, n D and d_{\downarrow}^{20}): (C₂H₅)₃Si(CH₂)₃OCH (IV), 7.2 207/746, 1.4413, 0.8375 (CH₃)₂C₂H₅Si(CH₂)₃OCH₃ (V) 50, 164/752, 1.4211, 0.8059; (CH₃)₂Si/(CH₂)₃OCH₃ /2 36, 105-105.6/20, 1.4330, 0.8676. By the interaction of (CH₃)₃SiCH₂Mg C1 and CH₃OCH₂C1 in usual conditions is obtained (CH₃)₃SiCH₂CH₂OCH₃, yield 40% b.p. 48-49°/70 mm, n^{20} D 1.4030, d_{\downarrow}^{20} 0.7867. Analogically is synthesized (CH₃)₃Si(CH₂)40CH₃, yield 8%, b.p. 59°/12 mm, n^{20} D 1.4243, d_{\downarrow}^{20} 0.8213. To 34 g. Mg and 0.5g AlCl₃ in 250 cc abs. ether is added in drops 108.5 g. III; obtained reaction mass is added to 85 g. SiCl₄ in 100 cc

Card : 2/3

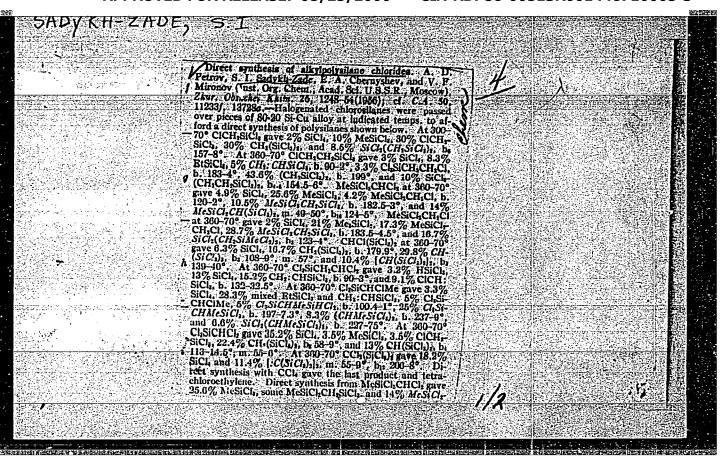
USSR/Organic Chemistry. Synthetic Organic Chemistry.

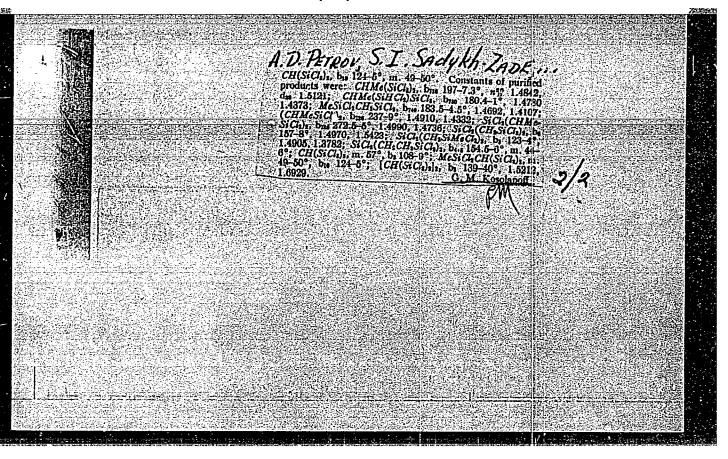
E-2

Abs Jour: Ref Zhur-Khimiya, No 6, 1957, 19258

ether, heated 5 hours, and filtered. At the distillation of the filtrate is obtained Cl₃Si (CH₂)₃OCH₃, yield 23.5% b.p. 172.5°/744 mm, n^{2O}D 1.4421, d₄^{2O} 1.2272. At the action of conc. H₂SO₄ on IV is formed /(CH₃)₂Si(CH₂)₃OCH₃/₄O, b.p. 122-124°/10 mm, n^{2O}D 1.4253, d₄^{2O} 0.8896. Analogically from V is obtained /(CH₃)₂C₂H₅Si(CH₂)₃OCH₃ / O, b. p. 128-130°/7 mm, n^{2O}D 1.4312, d₄^{2O} 0.8943. It is noted, that 2-chlor-4-methoxybutane does not give with Mg the Grignard reagent, but splits off the HCl, forming CH₃CH=CHCH₂OCH₃.

Card : 3/3



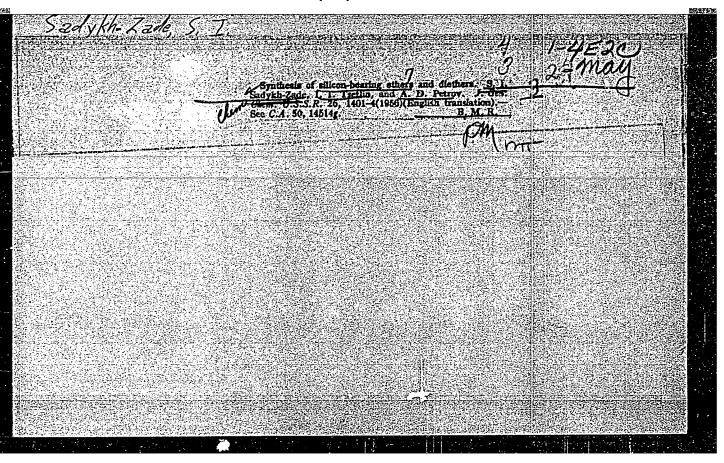


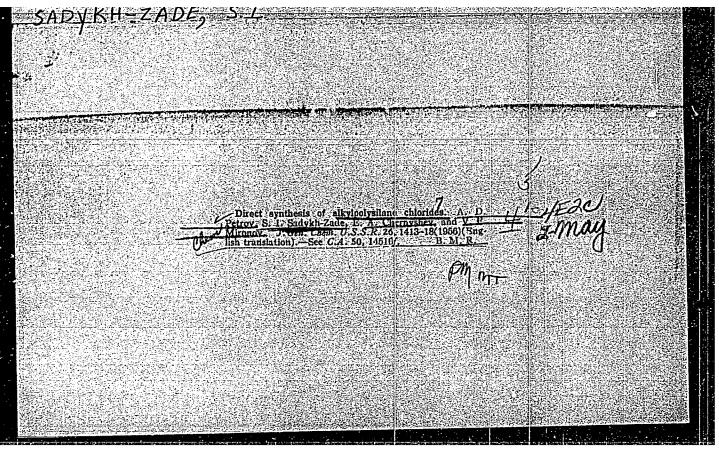
PETROV, A.D.; SADYKHZADE, S.I.; SMETANKINA, N.P.; YEGGROV, Yu.P.

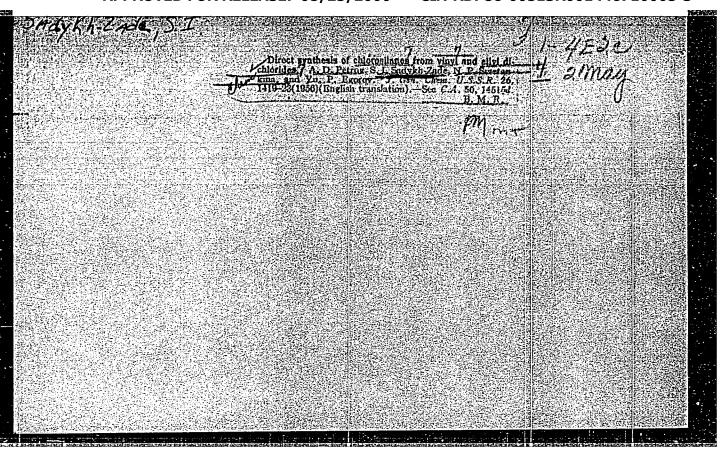
Direct synthesis of silane chlorides from vinylallyl-type chlorides.
Zhur.eb.khim.26 no.5:1255-1258 My '56. (MLRA 9:9)

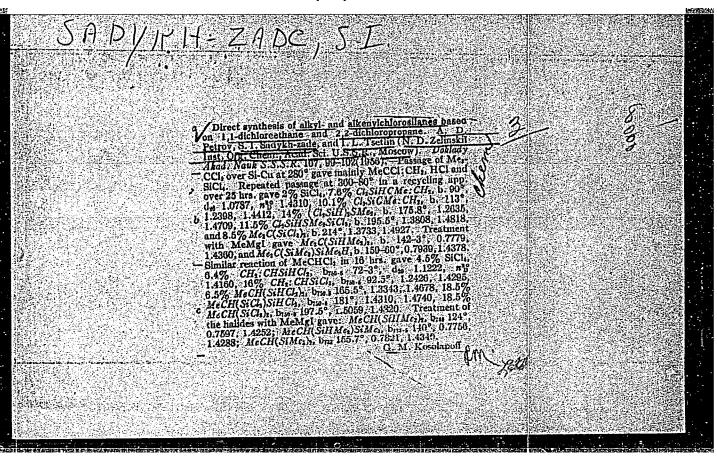
1.Institut organicheskey khimii Akademii nauk SSSR.

(Silane) (Chlorides)

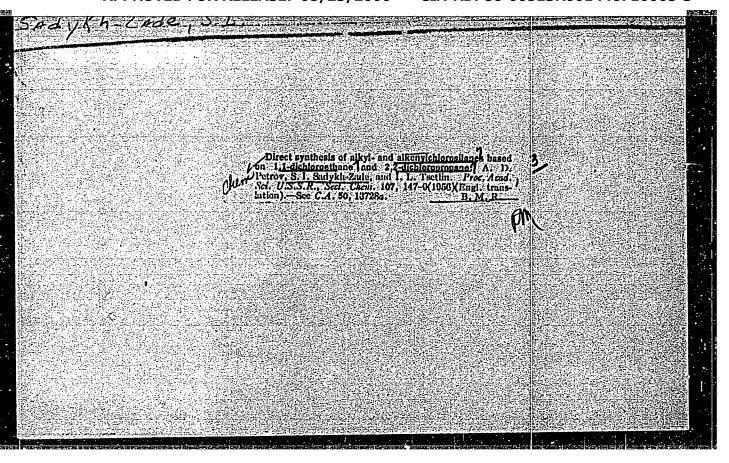




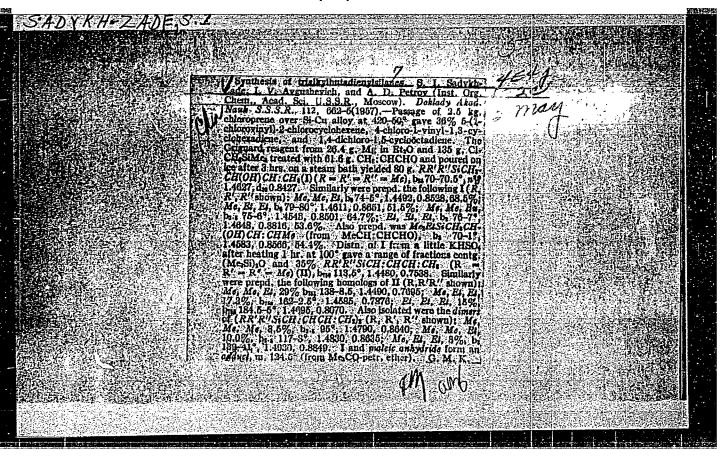




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A.D.; SADYKH-ZADE, S.I.; PONOMARENKO, V.A.; SOKOLOV, YEGOROV, Yu.P. Reaction of some Y -chloralkylsilanechlorides with scondition of forward synthesis. Zhur. ob. khim. 27 no. S 157.	ilicon under
1.Institut organicheskoy khimii AN SSSR. (Silicon) (Chemistry, OrganicSynthesis)	



PA - 3161

AUTHOR:

SADYKHZADE, S.I., YEGOROV. Yu.P. and PETROV, A.D.

TITLE:

Allene-Acetylene Isomeric Transformations in the Silicon Hydro-

carbon Series.

(Allen-atsetilenovyye izomernyye prevrashcheniya v ryadu krem-

neuglevodorodov. Russian).

PERIODICAL:

Doklady Akademii Nauk SSSR, 1957, Vol 113, Nr 3, pp 620 - 623

(U.S.S.R.)

Received: 6 / 1957

Reviewed: 7 / 1957

ABSTRACT:

On the occasion of an investigation β - γ -silico-allene-hydrocarbons were obtained for the first time by condensation of the Grignardreagentia from silicon halides with bromine-propargyle. A yield of 60 - 70 % of silico-allene-hydrocarbons only was obtained, probably according to following scheme:

$$\Rightarrow$$
 Si - CH₂MgCl + BrCH₂ - C=CH \Rightarrow BrCH = C = CH₂ \Rightarrow Si-CH₂-

$$-CH = C = CH_2$$

On the occasion of condensation of the Grignard-reagentia from the halides which did not contain silicon with bromine-propargyle, however, a mixture of acetylene- and allene-hydrogens was obtained. When heated with Na, the β - γ - silico-allene-hydrocarbons with a high yield (order of magnitude 40 %) changed into once-substituted

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PA - 3161

Allene-Acetylene Isomeric Transformations in the Silicon Hydrocarbon Series.

silico-acetylene-hydrocarbons with a triple binding to silicon in Y-position. These silicon-hydrocarbons gave a white precipitation with a silver nitrate solution. In particular

$$(CH_3)_3$$
Si - CH_2 - CH_2 - $C = CH_2$ and $(CH_3)(C_2H_5)_2$ Si - CH_2 - CH_2 -

- C == CH were hydrated in the presence of HgSO₄ in a methanolusolution. The Na-derivatives of the acetylene-silico-hydrocarbons condense easily with the halogen-alkyles: A description of the experiments follows. (1 table, 9 citations from Slavic publications)

ASSOCIATION:

Institute for Organic Chemistry N.D. Zelinskiy of the Academy of Science of the U.S.S.R.

(Institut organicheskoy khimii im N.D. Zelinskogo Akademii nauk

SSSR.)

PRESENTED BY:

SUBMITTED:
AVAILABLE:

31 October 1956 Library of Congress

Card 2/2

SADYKH, ZADE S. I. 20-3-28/59 Petrov, A.D., Corresponding Member, AN A, Shchukovskaya, L.L., AUTHORS Sadykh-Zade, S.I., Yegorov, Yu.P. The Synthesis and Dehydration of Unsaturated Silicon Containing TITLE Alcohols. (Sintez i degidratatsiya nepredel'nykh kremniysoderzhashchikh spirtov - Russian) Doklady Akademii Nauk SSSR, 1957, Vol 115, Nr 3, pp 522-525(U.S.S.R.) PERIODICAL It is known that the character of alcohol dehydration is determined ABSTRACT by the structure and nature of its alcohol group. This is easiest in the case of the tertiary, which is followed by the secondary and most difficult it is in the case of the primary ones. In the case of silicon containing alcohol the influence of this element is added. It was shown that the alcohols with a B-position of the alcohol group with regard to Si suffer a stronger or slighter B-decay, the saturated as well as the unsaturated alcohols, independently of their structure, besides dehydration. The unsaturated alcohols with a M-position of the alcohol group as well as the not decomposing alcohols with a B-position of this group which are investigated in the present paper are studied only to a very small extent. Formulae of the first of such alcohols are given, the dehydration of which was not yet studied. The first unsaturated not decomposing alcohol with a Its dehydration B-position of the OH-group is OH - CH3 $$\rm CH_3$$ Si(C2H5)3 with KHSO4 took place very easily and yielded the first silicium

APPROVED FOR RELEASE: 08/25/2000 CIA-RDP86-00513R001446710005-3"

Card 1/2

The Synthesis and Dehydration of Unsaturated Silicon 20-3-28/59 Containing Alcohols.

analogue of the methylisopren. The authors then synthetized the cyclic analogues of this alcohol and of the solicon hydrocarbon.Already in 1953 it was proved that after an interaction between the dimethylacetylenylcarbinol and the surplus of the Grignard-reagent the obtained derivate reacts with R3SiCl. The first of the two varieties (explained by schemes) was preferred. The synthesis of the above mentioned compound for R=CH3 Was repeated and a series of its analogues was obtained. All of them were easily dehydrated with KHSO4. The precise results of the spectral analysis with the above mentioned results are the reason for the suggestion of a(given) reaction scheme. The formation of compounds of an enol-type are a second confirmation of the structure. The obtained values are similar to those of the vinylethynylsilanes R3SiC C-CH=CH2. Furthermore 2 ways of synthesis are described. The synthetization of the ether CH3, C-C CH was also successful. An isomeric tertiary alcohol CH3 OSi(C2H5)3 which formerly was considered to be an ether has here given constants. There is 1 table and 4 Slavic references. Institute for Organic Chemistry". N.D. Zelinskiy of the A.N. of the (Institut organicheskoy khimii im.N.D.Zelinskogo A.N. SSSR) USSR.

ASSOCIATION

SUBMITTED AVAILABLE Card 2/2 March 3, 1957 Library of Congress

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FETROV, A. D., SADYKH-MADE, S. I. and SHCHUKOVSKAYA, L. L.						
ADYKH-ZA	DE SI					
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Chemistry Dre	esden, 12-14 May	y. 1958. The later with the manager of the later of the				
		골흑미민주의원은 근로 오르토란요.				

SADYKH ZADE, S.1.

62-58-4-25/32

AUTHORS:

Petrov, A. D., Sadykh-Zade, S. I.

TITLE:

On the Binding of Vinylacetylene With Hydride Silanes (O prisoyedinenii vinilatsetilena k gidridsilanam)

PERIODICAL:

Izvestiya Akademii Mauk SSSR, Otdeleniye Khimicheskikh Nauk,

1958, Nr 4, pp. 513 - 514 (USSR)

ABSTRACT:

The binding of acetylene with methyl-and ethylhydride silanes at 170 ½ 180°C was investigated by Shostakovskiy and Kochkin (Reference 1). The authors investigated the binding of vinylacetylene with hydrosilanes at 150 -160°C. In both cases a reaction took place, the produced butadienyl-silanes however polymerizing as high fusible polymers. In the last experiment it was, however, possible to find a catalyst which realizes the reaction also at room temperature: the obtained butadienylsilanes could easily be polymerized. The authors used an homogenous platinum catalyst: 0,1 N-solution in isopropylalcohol H2PtCl6. With this catalyst reactions were carried out (see formulae 1 and 2) which

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62-58-4-25/32

On the Binding of Vinylacetylene With Hydride Silanes

supplied yields of from 50 - 40%. With C2H5HSiCl2 the reaction also took place unidirectional in an about 50% yield of the reaction product (diethyldichlorosilylbutene).

There are ? Soviet references.

ASSOCIATION: Institut organicheskoy khimii im. N. D. Zelinskogo Akademii

nauk SSSR (Institute for Organic Chemistry imeni N. D.

Zelinskiy, AS USSR)

SUBMITTED: November 28, 1957

AVAILABLE: Library of Concress

1. Vinylacetylene—Compounding 2. Hydrosilanes—Applications

Card 2/2

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보통하는 시간 살인들은 아는 이렇게 되면 얼마가 있는데 하는 것은 만하는 점호 중국을 하고 하고 밝혔다.		김 물로 시민 시민이 그 나를			
一大型,"我们们,我们还是有一种的。""我们的,我们们就是一个人,我们的人,我们的人,我们就没有一个人,我们就会看到这个人,我们就会看到这个人,我们就没有一个人					
지수는 이 이 아는 이 이 아무리는 학생님은 그리고 이 문에 이 생물이 그녀는 하면서 된 양생하는 사람이 아니는 학생이 모양하고 한 화적을 통해야 한 바람이 되었다. 학생 사람은		าน์แลกว่า พิสตา และกลด์ คำสั			

sov/62-58-8-7/22

AUTHORS:

Petrov, A. D., Mironov, V. F., Penomarenko, V. A.,

Sadykh Zade S. I., Chernyshev, Ye. A.

TITLE:

Synthesis of New Types of Silicon Containing Monomers (Sintaz

novykh widov kremnesodershashchikh monomerow)

PERIODICAL:

Izvestiya Akademii nauk SSSR, Otdeleniye khimicheskikh nauk,

1958, Nr 8, pp. 954-963 (USSR)

ABSTRACT:

This lecture was delivered at the General Meeting of the Department of Chemical Sciences of the AS USSR on April 25, 1958. First the previous paper (Ref 1) and the papers written by other authors (Refs 2 and 3) are discussed in short, and then the lecture deals with the three subjects: a) The natalytic binding of hydride silanes with unsaturated and aromatic compounds. b) The condensation of hydride silanes with alkylpounds. b) The condensation of hydride silanes with alkylpounds. and alkenyl halides at high temperature. c) The synthesis of polymerizing silicon hydrocarbons (and their derivatives). The result of the experiments carried out is as follows: In the presence of H₂PtCl₆ alkyl dichlorosilanes bind with

Card 1/2

 $CH \equiv CH$, $CH_2 = CH_2$, $CH_2 = CHCH_3$ (at temperatures of from 20 to

SOV/62-58-8-7/22

Synthesis of New Types of Silicon Containing Konomers

60°C) in almost quantitative yield. In the presence of placinum catalysts alkyl dichlorosilanes supply higher yields of compound products. In the presence of peroxides higher yields are to be found due to siliconloreform. By means of the condensation (60000) of alkyl dichlorosilanes and silicochloroform with aryl- and alkenyl habides not accessible di-and trichlorcsilancy have been obtained until new. Silicon containing butadiene derivatives, acrylic acid derivatives, derivatives of rinyl esters and acetals were synthesized for the first time, all of which form linear, solid polymers (under atmospheric pressure). There are 1 figure, 3 tables, and 12 references, 10 of which are Soviet.

ASSOCIATION: Institut organicheskoy khimil im. N. D. Zelinskogo Akademil

nack SSSR (Institute of Organic Chemistry imeni N. D. Zalinskly,

AS USSR)

SUBMITTED:

May 4, 1958

Cari 2/2

AUTHORS:	Sadykh-zade, S. I., Petrov, A.D. SOV/79-28-6-23/63
TITLE:	Synthesis and Reactions of Butadienylsilanes (Sintez i reaktsii butadiyenilsilanov)
PERIODICAL:	Zhurnal obshchey khimii. 1958, Vol. 28, Nr 6, pp. 1542-1547 (USSR)
ABSTRACT:	The first representative of the trialkylsilylbutadiene series was obtained by selective hydration of the trialkylsilylacetylene by the authors: $R_3Si - C = C - CH - CH_2 + H_2 \rightarrow R_3Si - CH = CH - CH$
	—— CH === CH ₂ : (Ref. 1),
Card 1/3	the 2-trialkylsilylbutadiene (Ref 2) according to scheme 2. In the present work the authors investigated the synthesis of 1-trialkylsilylbutadiene according to scheme 2, i.e. by dehydration of the unsaturated organosilicon alcohols with an alcohol group in the β - or δ -position. It has to be mentioned that this method makes possible the synthesis of butadienylsilanes in which the silicon atom is at various distances from the butadiene chain. The character of the

Synthesis and Reactions of Butadienylsilanes

SOV/79-28-6-23/63

The first group was accompanied by a β -decomposition in the dehydration, whereas the second group (R=CH₂) almost completely was subjected to that decomposition. At R=C₆H₅ the dehydration even occurred already in simple distillation. The hydration even occurred already in simple distillation. The yield of trialkyl- β -methylbutadienylethylsilane amounted to 78 % (scheme 3). The butadienylsilanes obtained from the β -cl-cohols by dehydration were condensed with maleic anhydride and acrylic anhydride, with acrylic acid ester and acryl-nitril according to Dil's and Al'der; the yields were very good. Thus it was shown that by condensation of the Grignard reagents from α - and γ -siliconhalides with acrylic- and crotonic aldehyde unsaturated β - and γ -organosilicon-alcohols

Card 2/3

SOV/79-28-6-23/63

Synthesis and Reactions of Butadienylsilanes

can be synthesized. Besides, the partial decomposition in the dehydration of the β -alcohols, also dimers are formed apart from monomers. There are 3 tables and 6 references,

5 of which are Soviet.

ASSOCIATION: Institut organicheskoy khimii Akademii nauk SSSR i Institut

khimii Akademii nauk Azerbaydzhanskoy SSR

(Institute of Organic Chemistry AS USSR and Chemical Institute, AS

Azerbaydzhan SSR)

SUBMITTED:

June 10, 1957

1. Silicanes--Synthesis

Card 3/3

20-118-4-27/61 Sadykh-Zade, S. I., Nozdrina, L. V., AUTHORS:

Petrov, A. D., Corresponding Member of the AS USSR

Production of Silicon Olefine Oxides From Chlorhydrines TITLE:

(Sintez okisey kremneolefinov iz khlorgidrinov)

Doklady AN SSSR, 1958, Vol. 118, Nr 4, pp. 723-726 (USSR) PERIODICAL:

A silicon olefine oxide was produced only lately (reference 1) ABSTRACT: as first oxide of this kind (ϕ , δ -secondary-primary oxide) by interaction between the reagent of Grin'yar (Grignard) and epichlorhydrin. The reaction passed according to a very complicated scheme, the yields of the organic silicon chlorhy-

drin as well as of its oxide did not surpass 25-30%. In the present investigation it was found that the interaction bet-

ween the reagents of Grin'yar from silicon-halides

 $[\rightarrow Si-(CH_2)_nMgX]$ and monochloroacetone takes a clear course. This made possible a production of the β - ϵ - and δ - ϵ -oxides already with a high yield (80-90%). It is remarkable that the

 β -f-haloidhydrins, in contrast to the β - δ -haloidhydrins, yield no oxide, under the NaOH action but quantitatively unsaturated

halides. The authors succeeded in leading the reaction into the Card 1/2

Production of Silicon Olefine Oxides From Clorhydrines

20-118-4-27/61

direction of the oxides. NaOH could be substituted by $Ca(OH)_2$, or the alkyl radical R by R₃SiO; thus two divergent reactions were conducted. In the attempt to produce α - β -bromohydrin by affiliation of hypobromous acid to triethylvinylsilane the reaction took an anomalous course, and instead of bromohydrin dibromide was formed (analogously to ref. 2). The attempt to produce an oxide from R₂Si-CHCl-CH₃ failed, too. The bond Si-C

was hydrolyzed here under the influence of NaOH. R₂Si(OH)₂ was formed here, the initial compound did not suffer any changes under the action of Ca(OH)₂ and regained its original state. δ - ξ -oxide also absorbed the hydride silane and formed monoethers (no alcohol). This was determined from the negative value of the hydroxyl content. In the experimental part the usual data are given on: 3-trimethyl-silyl-1-chloro-2-methyl-propanol-2 (I), oxide of the 5-dimethyl-ethyl-silyl-2-methyl-pentene-1-2, and 1-chloro-2-methyl-triethyl-silyl-methyl-propene-1-2 together with some further analogous compounds. There are 2 tables and 2 references, 1 of which is Soviet. July 5, 1957 Library of Congress

SUBMITTED: AVAILABLE: Card 2/2

SOV/20-121-1-33/55

AUTHORS:

Petrov, A. D., Corresponding Member, Academy of Sciences,

USSR, Sadykh-Zade, S. I.

TITLE:

The Synthesis of Silicon Containing Monovinyl Ethers (Sintez

kremniysoderzhashchikh prostykh vinilovykh efirov)

PERIODICAL:

Doklady Akademii nauk SSSR, 1956, Vol. 121, Nr 1, pp. 119-122

(USSR)

ABSTRACT:

As is known, the polymers of the mentioned ethers serve as raw material for the synthesis of varnish and glue as well as for the production of artificial leather etc. (Ref 1). Vinyl ethers are produced by a simple reaction (1) which, however, cannot be used in the case of the silanoles Si-OH, since alkoxy- and alkenyloxysilanes are hydrolytically decomposed under the influence of electrophile as well as of nucleophile reagents. After the reaction (1) the vinylation succeeded only in the case of such a silicon containing alcohol as hydroxypropyl trimethylsilane (Ref 2). In this case the alcohol group did no more act upon the silicon in consequence of the considerable distance between the alcohol group and the latter. In this case, however, a reverse movement from the periphery to the center

Card 1/3

The Synthesis of Silicon Containing Monovinyl Ethers SOV/20-121-1-33/55

was not successful, in contrast to acetylene hydrocarbons. This reverse movement was not possible even in the case of g-butylsilane owing to its decomposition. In the present investigation the authors succeeded for the first time in synthetizing vinyl ethers according to a new affiliation reaction of the trialkylsilanes $R_zSi\,H$ to the $\alpha\text{-}\beta\text{--}unsaturated$ aldehydes or ketones in the presence of H2PtCl6 which is specific for the chemistry of organo-silicon compounds. This affiliation takes place in the 1,4-position in which R_zSi is affiliated to the carbonyl oxygen. The affiliation took place according to two different reactions: In the case of (2) to the akryl- and cinnamon aldehyde, in the case of (3) to methyl vinyl ketone and to methylcyclohexenone. The silicon containing vinyl ethers may be hydrolized as easily as the vinyl ethers which do not contain silicon. They may be analyzed by means of oximizing the aldehydes (or ketones) formed by hydrolysis. Naturally hexa-alkyl-siloxanes are produced in this case instead of alcohols. The authors succeeded to bring about also an affiliation to akryl aldehyde in the presence of the same catalyst. The produced ethyl methyl-vinyl-oxy-dichlorosilane polymerized, however, to a thick liquid (similar to

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The Synthesis of Silicon Containing Monovinyl Ethers SOV/20-121-1-33/55

glycerin). By the hydrolysis of this polymer a solid not meltable product of the polycondensation was obtained which was not soluble in ether, but partly in benzene. There are 1 table and 5 references, 4 of which are Soviet.

ASSOCIATION:

Institut organicheskoy khimii im. N. D. Zelinskogo, Akademii nauk SSSR (Institute of Organic Chemistry imeni N. D.

Zelinskiy, AS USSR)

SUBMITTED:

February 6, 1958

1. Silicon compounds (Organic) -- Synthesis 2. Vinyl ethers -- Chemical properties 3. Vinyl ethers -- Synthesis 4. Silicanes -- Chemical reactions 5. Aldehydes -- Chemical reactions 6. Ketones -- Chemical reactions

Card 3/3

SALYKH-ZADE, S. I.

- S. I. Sadykh-zade and A. D. Petrov, "The Synthesis of Silicon-Organic Vinyl Ethers."
- G. I. Nikishin, A. D. Fetrov, S. I. Sadykn-zade, "The pehavior of Various Dichloralkanes and Dichloralkenes."

Report presented at the Second All-Union Conference on the Chemistry and Practical Application of Silicon-Organic Compounds held in Leningrad from 25-27 September 1958.

Zhurnal prikladnoy khimii, 1959, Nr 1, pp 238-240 (USSR)

5(3) sov/79-29-4-14/77 Sadykh-zade, S. I., Petrov, A. D. AUTHORS: On the Reactions of & - and [3-Chloroethyl-ethyl TITLE: Dichlorosilanes With Silicon Under the Conditions of Direct Synthesis (O reaktsiyakh X - i | 1khloretiletildikhlorsilanov s kremniyem v usloviyakh pryamogo sinteza) Zhurnal obshchey khimii, 1959, Vol 29, Nr 4, pp 1109-1112 PERIODICAL: (USSR) Recently the authors had signed that the polyfunctional ABSTRACT: organosilicon compounds can be obtained by direct synthesis from a., B. and &-chloroalkylsilane chlorides (Ref 1). It was proved that in the reaction with silicon (at 370-380°) (Cl_SiCH_2CH_2Cl and Cl_SiCHClCH_3) in addition to the synthesis products further a dehydrochlorination product of these silane chlorides, the trichlorovinyl silane (5% yield) is formed. At the same time the yield of the dehydrochlorination products was varying, accordingly, from 26% up to 58% when using the *-chloroalkyl-alkyldichlorosilanes Card 1/3

On the Reactions of A - and 3-Chloroethyl-ethyl SOV/79-29-4-14/77 Dichlorosilanes With Silicon Under the Conditions of Direct Synthesis

Cl₂(CH₃)SiCH₂CH₂CH₂Cl and Cl₂(CH₃)SiCH₂CHCH₂Cl (II).

On the assumption that the higher yield of dehydrochlorination products in the two latter reactions was less due to the more readily formation of β -alkenylchlorosilanes (as compared with the α -alkenylchlorosilanes) than to the substitution of the alkyl in the trichlorosilyl group for one chlorine, the present investigation was carried out. The results presented in both tables confirm the correctness of the above assumption. The yield of the alkenylsilanes of the products of the β -cleavage (CH₂ — CHSiCl₃) and of the dehydrochlorination $\left[\left(C_2H_5\right)\left(CH_2\right)\right] = CHSiCl_3$ was indeed 18 - 27 %. In a 24 - 25 % yield the polyfunctional silane chlorides (tetrachlorodisilane and hexachlorotrisilane) resulted as products of synthesis. Details are given in the experimental part. There are 2 tables and 2 Soviet references.

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On the Reactions of A and P-Chloroethylethyl SOV/79-29-4-14/77 Dichlorosilanes With Silicon Under the Conditions of Direct Synthesis

ASSOCIATION: Institut organicheskoy khimii Akademii nauk SSSR i Institut

khimii Akademii nauk Azerbaydzhanskoy SSR (Institute of Organic Chemistry of the Academy of Sciences, USSR, and Institute of Chemistry of the Academy of Sciences of the

Azerbaydzhanskaya SSR)

SUBMITTED: February 20, 1958

Card 3/3

5(3) AUTHORS:

Petrov, A. D., Sadykh-Zade, S. I., SOV/79-29-9-26/76

Filatova, Ye. I.

TITLE:

On the Addition of Hydrosilanes to α,β -Unsaturated

Acids and Their Esters

PERIODICAL:

Zhurnal obshchey khimii, 1959, Vol 29, Nr 9, pp 2936-2939

(USSR)

ABSTRACT:

Recently the authors found (Ref 1) that trialkyl- and aryl alkyl silanes add to α,β -unsaturated aldehydes and ketones only in 1,4-position in the presence of a 0.1n. solution of H_2PtCl_6 in isopropyl alcohol, under the formation of siliconcontaining vinyl ethers. They investigated this reaction on the basis of acrylic aldehyde, methylvinyl ketone, and their various analogs with substituents in β -position. It was an interesting experiment to add the hydrosilanes also to the α,β -unsaturated acids and their esters, all the more as publications (Ref 2) described the addition of methyl dichloro silane to methylacrylate in the presence of platinum on carbon in the autoclave at a heating of sixteen hours' duration at 125°; a simultaneous addition in both the 1,4- and 1,2-position was found to take place. It was, therefore, not

Card 1/3

On the Addition of Hydrosilanes to $\alpha,\beta\textsc{-Unsaturated}$ Acids and Their Esters

SOV/79-29-9-26/76

possible to deny a priori the influence exerted by experimental conditions on the order of addition. The below-mentioned experimental conditions on the order of addition. The below-mentioned experimental conditions on the order of addition. The below-mentioned experimental conditions on the order of addition. The below-mentioned experimental conditions methyl dichloro silane adds to methylacrylate conditions. It was further found simultaneously in 1,2- and 1,4-position. It was further found that trichloro silane adds only in 1,2-position to this ester, and triethylsilane only in 1,4-position (this holds also for and triethylsilane only in 1,4-position (this holds also for

that trichloro straine acts of and triethylsilane only in 1,4-position (this holds also for and triethylsilane only in 1,4-position (this holds also for the free acid). Thus, it was found that the order of addition changes gradually in the replacement of the alkyl radicals in the trialkylsilanes by the more electronegative halogen radicals (Scheme). Trialkylsilane adds also to methyl methacrylate in 1,2-position, which indicates that the order of addition depends also on the structure of the α,β -unsaturated carbonyl compounds. The addition of alkyl dichlorosilanes in the presence of H,2tcl6 proceeds in the same way as in heating

with platinum on carbon, i.e. simultaneously in 1,2- and 1,4-position. There are 8 references, 3 of which are Soviet.

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